

Patent Abstracts of Japan

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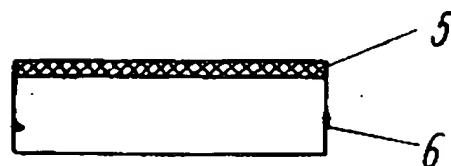
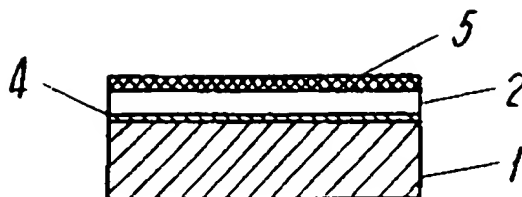
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APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : HONMA MASAMI;

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TITLE : LASER TOTAL REFLECTOR



ABSTRACT : PURPOSE: To improve chemical resistance and abrasion resistance, by providing an adherence intensified layer, a laser light reflecting layer and a protecting layer on a substrate, using one of a metallic film and a dielectric multilayer film, as the reflecting layer, and using a hard metallic film, as the protecting layer.

CONSTITUTION: On a substrate 1 of a copper plate, etc., an adherence intensified layer 4 consisting of one of Cr, Ni and W is provided. Subsequently, a laser light reflecting layer 2 consisting of one of gold, silver and copper is formed. On this layer, a tungsten W layer being a hard metal is formed within a range of 100~800 μ m thickness by a vacuum depositing method, by which a protecting layer is obtained. In this way, abrasion resistance of the surface, and chemical resistance are improved. It is also possible to directly from the W protecting film 5 on a copper substrate 6 to which nonelectrolytic Ni plating has been performed.

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